EST3
International Installation Supplement Manual

P/N 270925 • Rev 1.0 • 24JAN00

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CREDITS	This manual was designed and written by EST Technical Services-Documentation Department, Sarasota.

DOCUMENT HISTORY

Date	Revision	Reason for change
24JAN00	1.0	Original release

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Important information

Limitation of liability

This product has been designed to meet the requirements of various international standards. Installation in accordance with this manual, applicable codes, and the instructions of the Authority Having Jurisdiction is mandatory. EST shall not under any circumstances be liable for any incidental or consequential damages arising from loss of property or other damages or losses owing to the failure of EST products beyond the cost of repair or replacement of any defective products. EST reserves the right to make product improvements and change product specifications at any time.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, EST assumes no responsibility for errors or omissions.

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About this manual

This manual only contains information specific to systems installed outside the United States and Canada. It is intended to supplement the *EST3 Installation and Service Manual*, which should be the primary source of information.

Chapter 1 provides special procedures for the installation and electrical wiring of system components as required for LPCB approval/certification.

Chapter 2 provides special procedures for the operation of systems installed in the European market place.

Chapter 3 provides special installation and electrical wiring of system components as required for the Chinese marketplace.

Safety information

Important safety admonishments are used throughout this manual to warn of possible hazards to persons or equipment.

WARNING: Warnings are used to indicate the presence of a hazard that will or may cause personal injury or death, or loss of service if safety instructions are not followed or if the hazard is not avoided.

Caution: Cautions are used to indicate the presence of a hazard that will or may cause damage to the equipment if safety instructions are not followed or if the hazard is not avoided.

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The EST3 library

A family of documents and multi-media presentations supports the EST3 network. A brief description of each document is provided below.

EST3 Installation Manual and Service Manual, *P/N 270380.* This manual provides complete information on how to install and service the EST3 hardware. This manual also includes installation information on selected Signature Series components.

EST3 Programming Manual, P/N 270381. This manual provides quick reference information for defining and labeling individual system components using the Systems Definition Utility (SDU), and for writing rules to govern system operation.

EST3 System Operations Manual, P/N 270382. This manual provides detailed information on how to operate the system and system components.

EST3 International Installation Supplement Manual, P/N 270925. This manual provides information specific to systems installed outside the United States and Canada.

EST3 Smoke Management Application Manual, P/N 270913. This manual provides information for designing, programming, and testing an EST3 smoke control system.

EST3 Users Self-Study Course, P/N 270684. This course contains a self-paced manual, and accompanying video. The course is designed for building personal, security guards, firefighters, and similar individuals that may be required to operate the system.

Signature Series Intelligent Smoke and Heat Detectors Applications Bulletin, *P/N 270145.* This manual provides additional applications information on the Signature series smoke and heat detector applications.

Signature Series Component Installation Manual, P/N 270497. This manual provides detailed mounting and wiring information for all Signature series devices.

Speaker Application Guide, P/N 85000-0033. This manual provides information on the placement and layout of speakers for fire alarm signaling and emergency voice communications.

Strobe Applications Guide*, P/N 85000-0049*. This manual provides information on the placement and layout of strobes for fire alarm signalings.

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Related documentation

EN54 Part 2; 1997	Control and Indicating Equipment
EN54 Part 4; 1997	Power Supply Equipment
73/23/EEC	Low Voltage Directive
89/336/EEC as amended by 9/31/EEC	Electromagnetic Compatibility Directive
EN50130-4; 1995	Immunity Requirements for Components of Fire, Intruder, and Social Alarm Systems
EN55022:1995	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment

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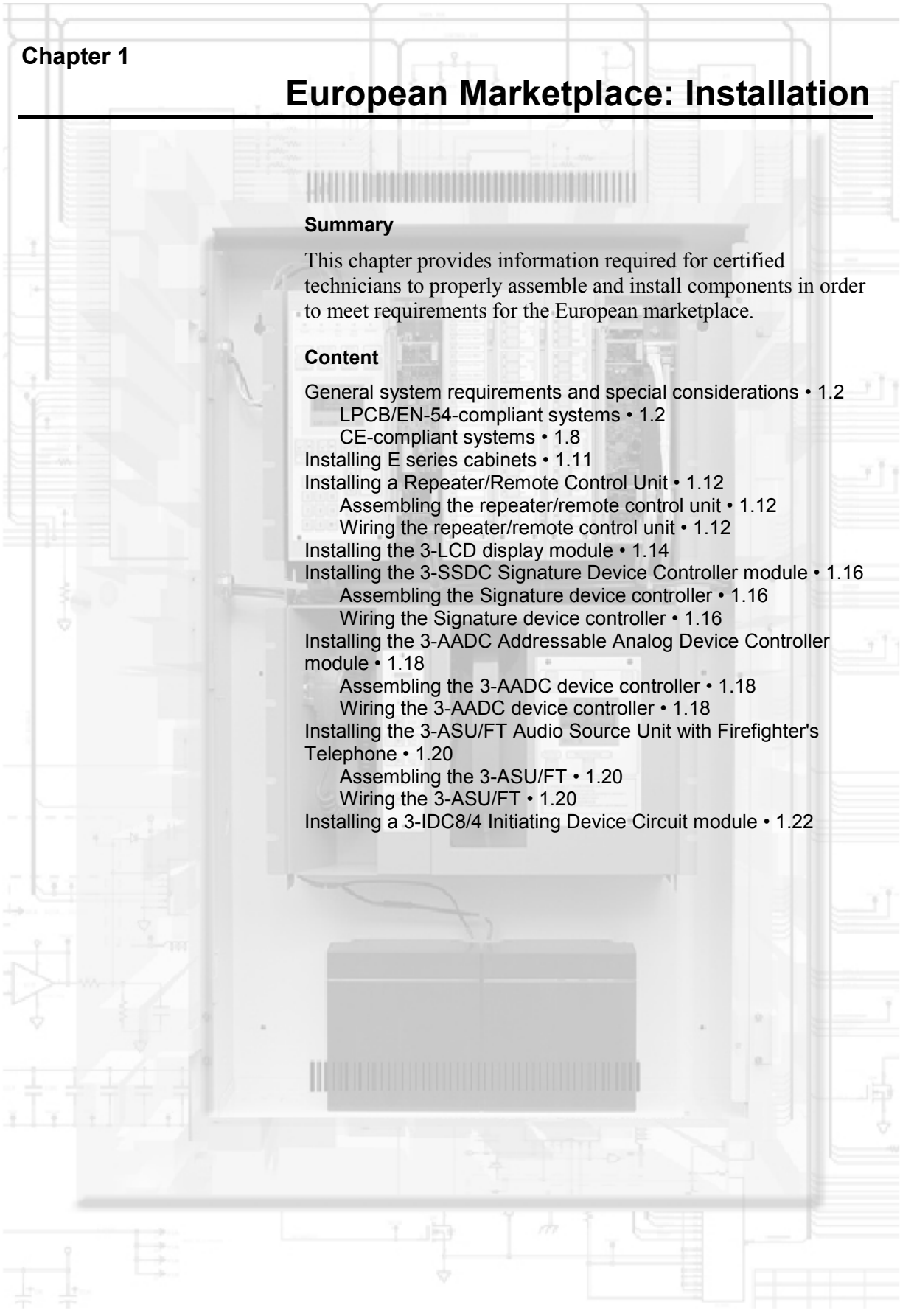
Chapter 1

European Marketplace: Installation



Summary

This chapter provides information required for certified technicians to properly assemble and install components in order to meet requirements for the European marketplace.

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General system requirements and special considerations

LPCB/EN-54-compliant systems

To achieve compliance with EN 54-2, -4: 1997 per LPCB, the following considerations must be taken into account:

- There are no user serviceable parts within the CIE (Control and Indicating Equipment). Contact your distributor for assistance.
- The battery size is limited to 17 Ah and shall be manufactured by GS Battery, Inc. type PE-12V Series.
- To eliminate the possibility of rail communication LEDs from being misinterpreted as events, blank Kapton labels supplied with the PPS/M-230-E must be applied over the rail communication LEDs for every LRM installed in a rail slot.
- To invoke the correct functionality that complies with EN 54-2, -4: 1997, the project must be configured with the Market Place setting set to European and the Primary Language setting set to English U.K.
- The term used for zones in test throughout the EST3 documentation is Service Groups. Points within a Service group must exactly match the points defined for each Zone. The messages and zone numbers must also match.
- The 3-LKE insert must be installed in the 3-LCD.
- The terms sounder and audible may be used interchangeably. All sounder circuits shall be configured as audibles.
- A dedicated disconnect device must be provided for each installation.

Caution: The fault event message “Network panel xx off-line” could indicate a serious failure, such as CPU Failure, of the CIE (panel)/Repeater.

Caution: The fault event message “Power Supply” could indicate a serious fault, such as battery charger failure or loss of ac power.

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The EST3 life safety system has been approved/certified to EN 54-2, -4: 1997 by LPCB along with the following options with requirements:

- output to fire alarm devices
- alarm counter
- fault signals from points
- test conditions
- standardized input/output interface.

The products that were found compliant are listed in Table 1-1.

Table 1-1: LPCB/EN-54-compliant products

Models	Description
3-CAB7B-E, 3-CAB7D(R)-E	1-chassis wall box with E-series inner and outer doors. Available in surface or semi-flush mounting.
3-CAB14-E, 3-CAB14D(R)-E	2-chassis wall box with E-series inner and outer doors. Available in surface or semi-flush mounting.
3-CAB21-E 3-CAB21D(R)-E	3-chassis wall box with E-series inner and outer doors. Available in surface or semi-flush mounting.
3-RCC7R-E	1-chassis wall box with solid door (same as US model). Available in surface or semi-flush mounting.
3-RCC14R-E	2-chassis wall box with solid door (same as US model). Available in surface or semi-flush mounting.
3-RCC21R-E	3-chassis wall box with solid door (same as US model). Available in surface or semi-flush mounting.
3-6ANN-E (R)	6-position base annunciator; includes door, CPU, 2 annunciator support modules, and 5 blank filler plates.
3-10ANN-E (R)	10-position base annunciator; includes door, CPU, 2 annunciator support modules, and 9 blank filler plates.
3-LCDANN-E	Remote command module annunciator; includes door, LCD, and CPU.
3-PPS/M-230-E	IEC950-compliant Primary Supply with Power Distribution
3-BPS/M-230-E	IEC950-compliant Booster Supply

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Models	Description
3-CPU1	Main CIE Central Processing module
3-ANNCPU1	Remote CIE/Repeater Central Processing module
3-RS232	RS-232 serial communication card
3-RS485A(B)(R)	RS-485 serial communication card
3-LCD	Display module for both CIE and Remote/Repeater
3-IDC8/4	Sounder circuits and traditional device module
3-SSDC	Signature Driver Controller module
3-AADC	Addressable Analog Device Controller
3-LDSM	LED card Driver Support Module for Main CIE
3-ANNSM	LED card Driver Support Module for Remote/Repeater
3-24Y	Control/display module consisting of 24 yellow light-emitting diodes
3-24R	Control/display module consisting of 24 red light-emitting diodes
3-12RY	Control/display module consisting of 12 red and 12 yellow light-emitting diodes
3-LRMF	Local rail module filler plate

As a requirement of LPCB approval/certification to EN 54-2, -4: 1997, the assemblies listed in Table 1-2 were investigated as ancillary to the EN-54 function. These products may be installed in the same cabinet as the main CIE, however separation must be provided between control/display modules designated as fire-related functions and the ancillary control/display modules.

Table 1-2: LPCB/EN-54-compliant ancillary products

Model	Description
3-ASU	Audio Source Unit
3-FTCU	Firefighters Telephone Control Unit
3-RCIC	Rail Chassis Interface for ASU and FTCU
3-ZA20	20-watt Audio Amplifier
3-ZA40	40-watt Audio Amplifier

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Model	Description
3-12Sx	Control/display module consisting of 12 switches and 24 light-emitting diodes of various colors
3-12/Sx	Control/display module consisting of 12 switches and 12 light-emitting diodes of various colors
3-6/3S1xx	Control/display module consisting of 6 sets of 3 switches/3 light-emitting diodes of various colors

Compatible products

Refer to the LPCB approval/certification report for a list of compatible products.

High and low voltage cabinet wiring

Figure 1-1 shows a typical routing scheme for mains and battery wiring. Figure 1-2 shows typical wiring for all other wiring.

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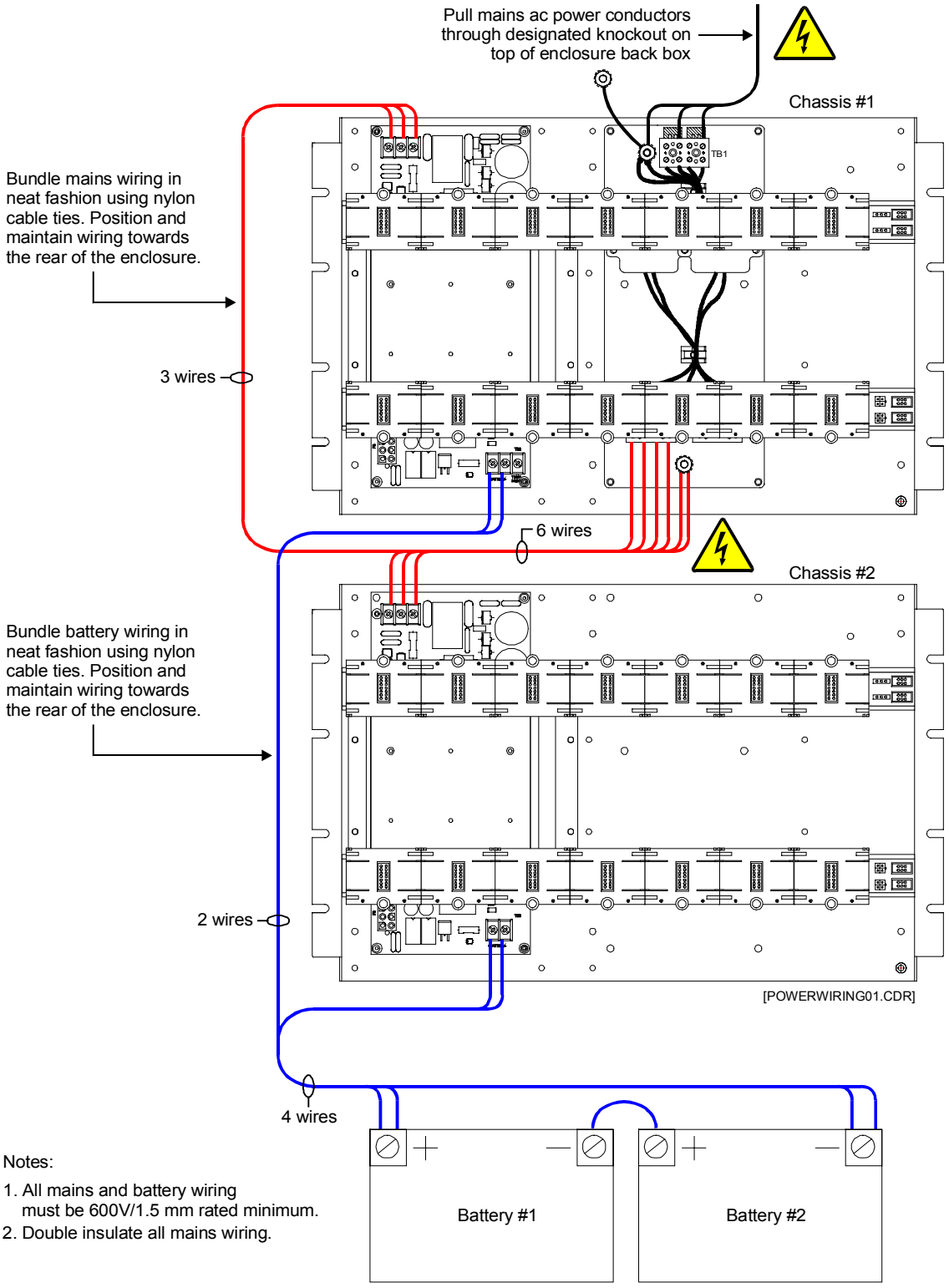
Pull mains ac power conductors through designated knockout on top of enclosure back box
Chassis #1
TB1
Bundle mains wiring in neat fashion using nylon cable ties. Position and maintain wiring towards the rear of the enclosure.
3 wires
6 wires
Chassis #2
Bundle battery wiring in neat fashion using nylon cable ties. Position and maintain wiring towards the rear of the enclosure.
2 wires
[POWERWIRING01.CDR]
4 wires
Battery #1
Battery #2
Notes:
1. All mains and battery wiring must be 600V/1.5 mm rated minimum.
2. Double insulate all mains wiring.

Figure 1-1: Typical routing diagram for mains and battery wiring

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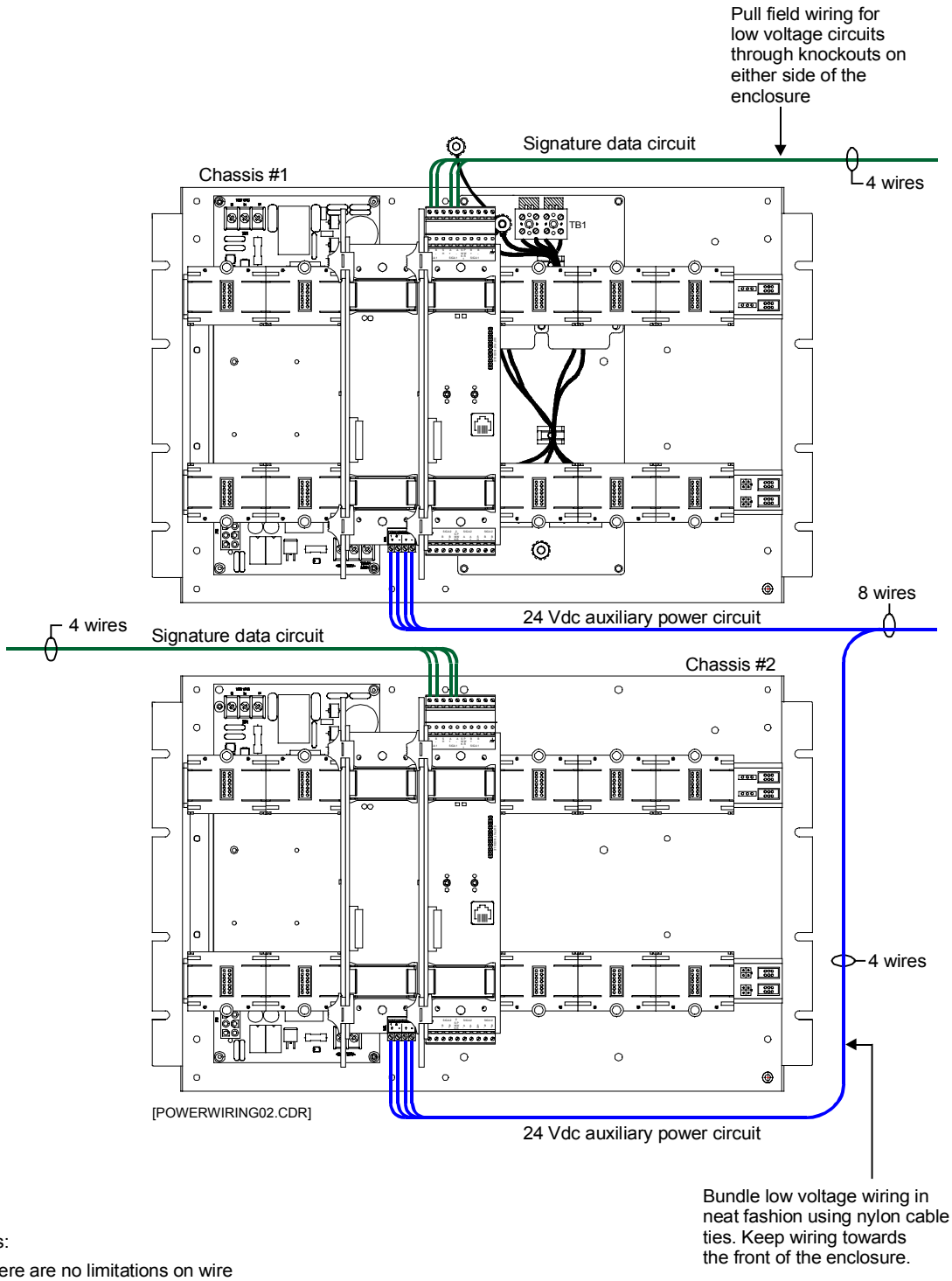
Pull field wiring for low voltage circuits through knockouts on either side of the enclosure
Signature data circuit
4 wires
Chassis #1
TB1
8 wires
24 Vdc auxiliary power circuit
4 wires
Signature data circuit
Chassis #2
4 wires
[POWERWIRING02.CDR]
24 Vdc auxiliary power circuit
Bundle low voltage wiring in neat fashion using nylon cable ties. Keep wiring towards the front of the enclosure.

Notes:

1. There are no limitations on wire types used for low voltage wiring to meet LPCB/EN-54 approval.

Figure 1-2: Typical routing diagram for low voltage wiring

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CE-compliant systems

In CE-compliant systems, special consideration must be given regarding RF emissions. The standard EN55022 (CISPR 22) includes two basic categories, Class B and Class A.

Class B systems are intended primarily for use in a domestic environment and may include:

- Equipment with no fixed place of use. For example, portable equipment powered by built-in batteries.
- Telecommunications terminal equipment powered by a telecommunications network.
- Personal computers and auxiliary connected equipment.

Class A systems are all other systems that satisfy the Class A limits but not the Class B limits. EST3 systems can be configured to meet both Class A and Class B requirements for emissions. Refer to CISPR 22 for information on Class A and Class B limits.

Please contact your authorized distributor for the Declaration of Conformity and a current list of compliant modules.

CISPR Class A systems

CISPR Class A systems meet the same requirements as LPCB/EN-54 systems. Refer to Table 1-1 and Table 1-2 for a list of the required hardware. Install according to the instructions provided in their respective installation sheets and this manual.

WARNING: In this configuration, this is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CISPR Class B systems

CISPR Class B systems can only be configured using 3-RCC-E series cabinets. Wiring inside the cabinet must meet the same requirements as LPCB/EN-54 systems with the following additions:

- All low voltage wiring entering the cabinet must be shielded and terminated inside the cabinet to studs provided immediately at the point of entry. See Figure 1-3.
- Clamp a ferrite sleeve (ordered separately, P/N RFK1) around each cable entering the cabinet close to the point of entry

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Note: Mains ac conductors do not require shielding or attaching ferrite sleeves.

In addition, take extra care to avoid damaging the RF gasket on the back box and cabinet door.

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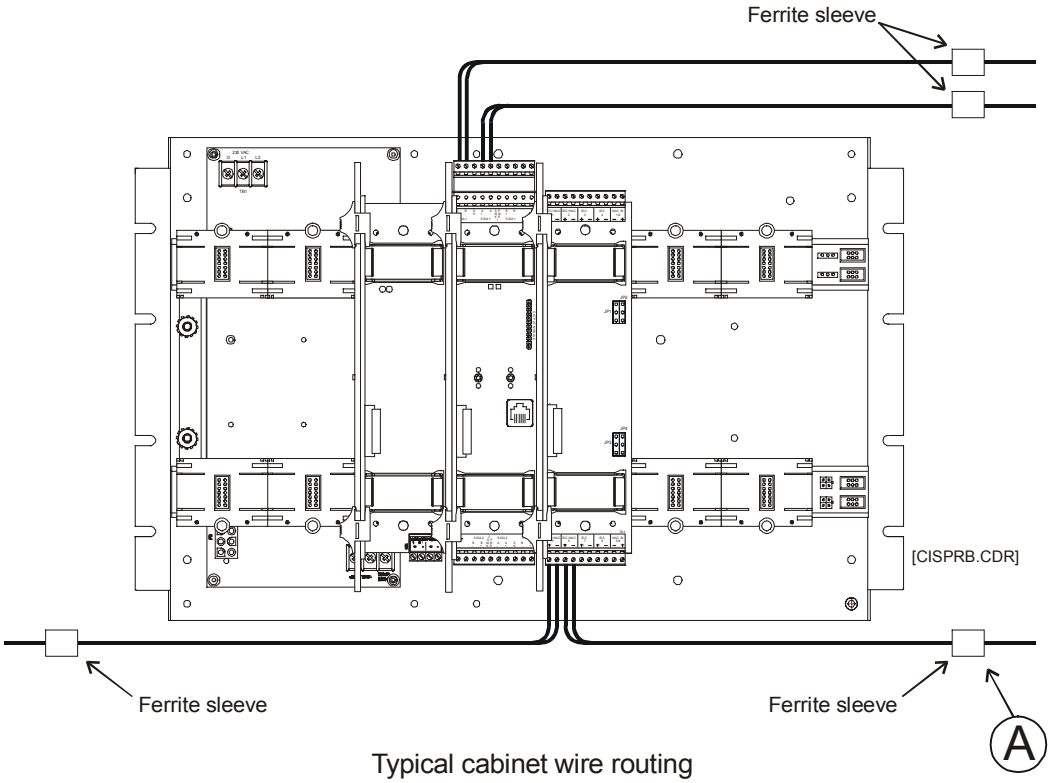
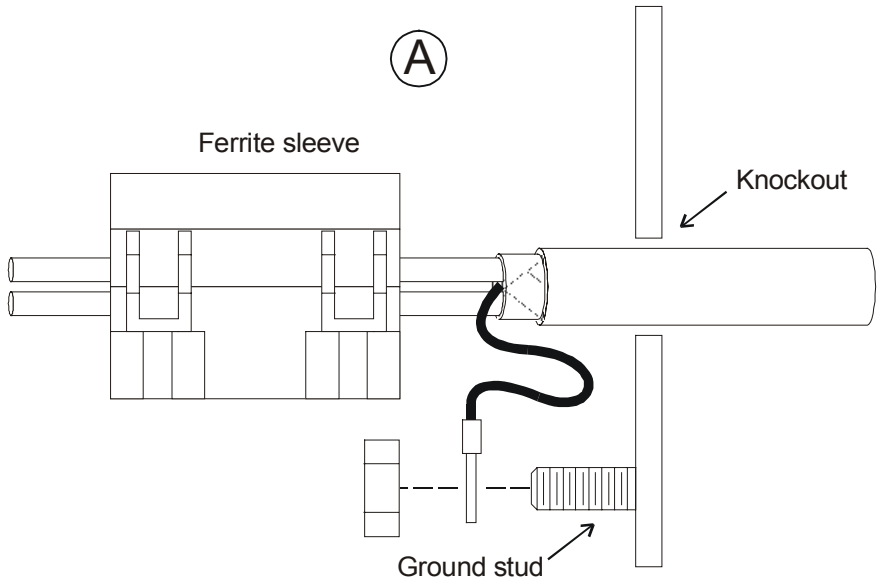


Typical cabinet wire routing



Proper shielding method for field wiring

Figure 1-3: Typical wiring for CISPR Class B systems

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Installing E series cabinets

E series cabinets are available in two basic models, the 3-CABx-E and 3-RCCx-E. E series cabinets use the same back boxes as those available in the United States and Canada and accommodate 1-, 2-, or 3-rail chassis. Refer to Table 1-1 for a list of available cabinets.

The doors for 3-CABx-E cabinets are specific to LPCB/EN-54. 3-CAB-E series cabinets doors allow level 1 access to the panel without the aid of any special tools. To provide level 1 access to the panel, the inner door incorporates a flexible mylar film across the top opening. When closed, persons having the general responsibility for safety supervision may still access the panel control and fire-function annunciator strips.

The outer door assembly incorporates a protective gasket around the upper door opening to prevent debris from entering the enclosure.

To install an E series cabinet:

1. Install the cabinet back box. Refer to the applicable back box installation sheet.
2. Install the cabinet doors. Refer to the applicable cabinet door installation sheet.

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Installing a Repeater/Remote Control Unit

Caution: This product contains components that are sensitive to static electricity. Failure to follow proper handling procedures will result in equipment damage.

Assembling the repeater/remote control unit

To assemble the repeater/remote control unit:

1. Install the cabinet back box. Refer to the back box installation sheet.
2. Install the cabinet doors. Refer to the cabinet door installation sheet.
3. Install the 3-ANNCPU1. Refer to the 3-ANNCPU1 installation sheet.

Wiring the repeater/remote control unit

Make the field wiring connections as indicated in the 3-ANNCPU1 installation sheet with the following exceptions:

- Do not attach a wire from earth to TB1-EGND
- If used as a remote control unit (only user interface), power for remote control units must be supervised as shown in Figure 1-4

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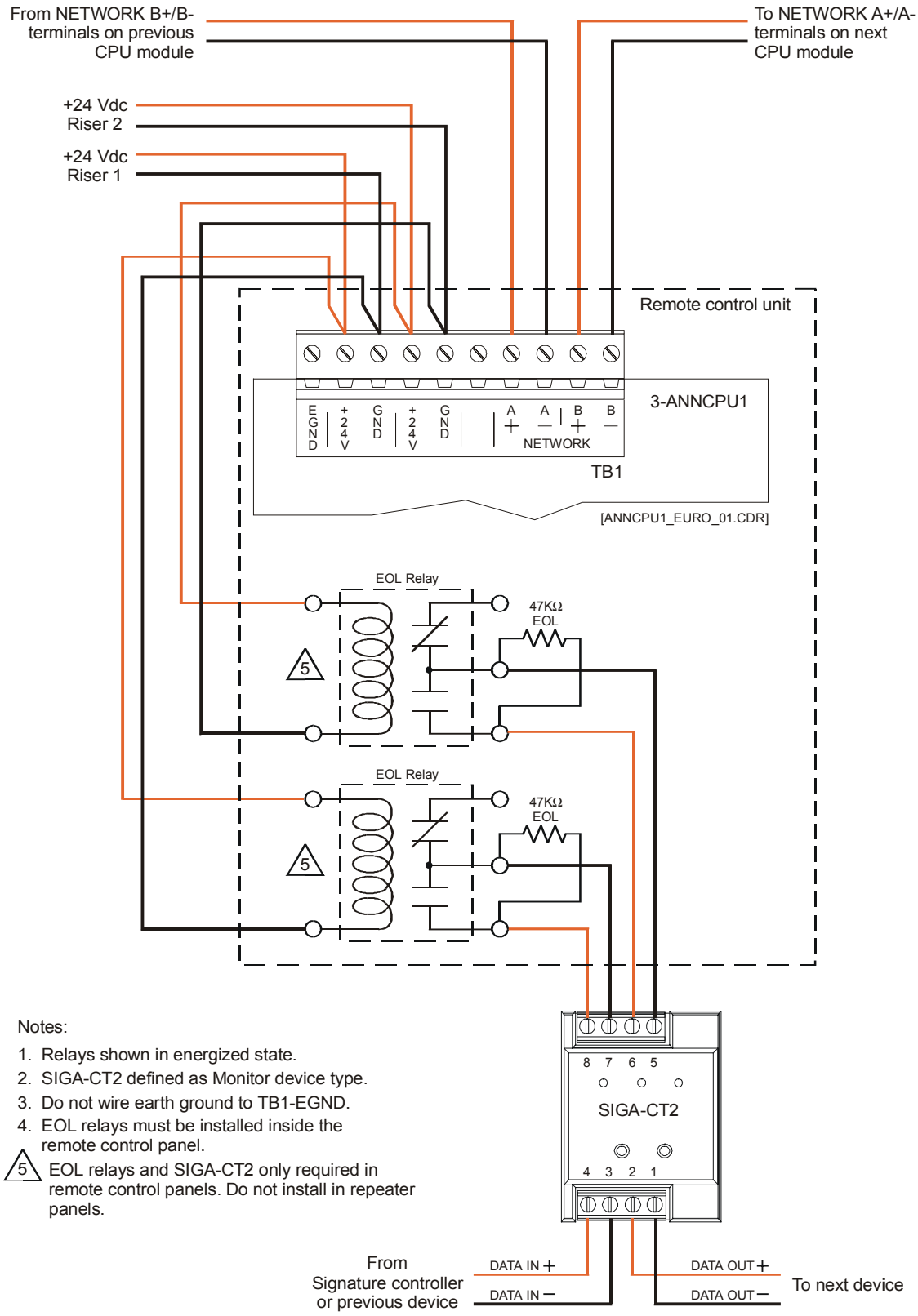

Figure 1-4: 3-ANNCPU1 power supervision wiring for remote control units

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Installing the 3-LCD display module

Caution: This product contains components that are sensitive to static electricity. Failure to follow proper handling procedures will result in equipment damage.

Install the 3-LCD display module as indicated on its installation sheet with the following exception:

- Insert the 3-LKE European label kit before attaching the 3-LCD to the CPU module.

To insert the 3-LKE labels:

1. Remove the slide locks from right side of the display module. See Figure 1-5.
2. Insert the 3-LKE labels.
3. Replace the slide locks.

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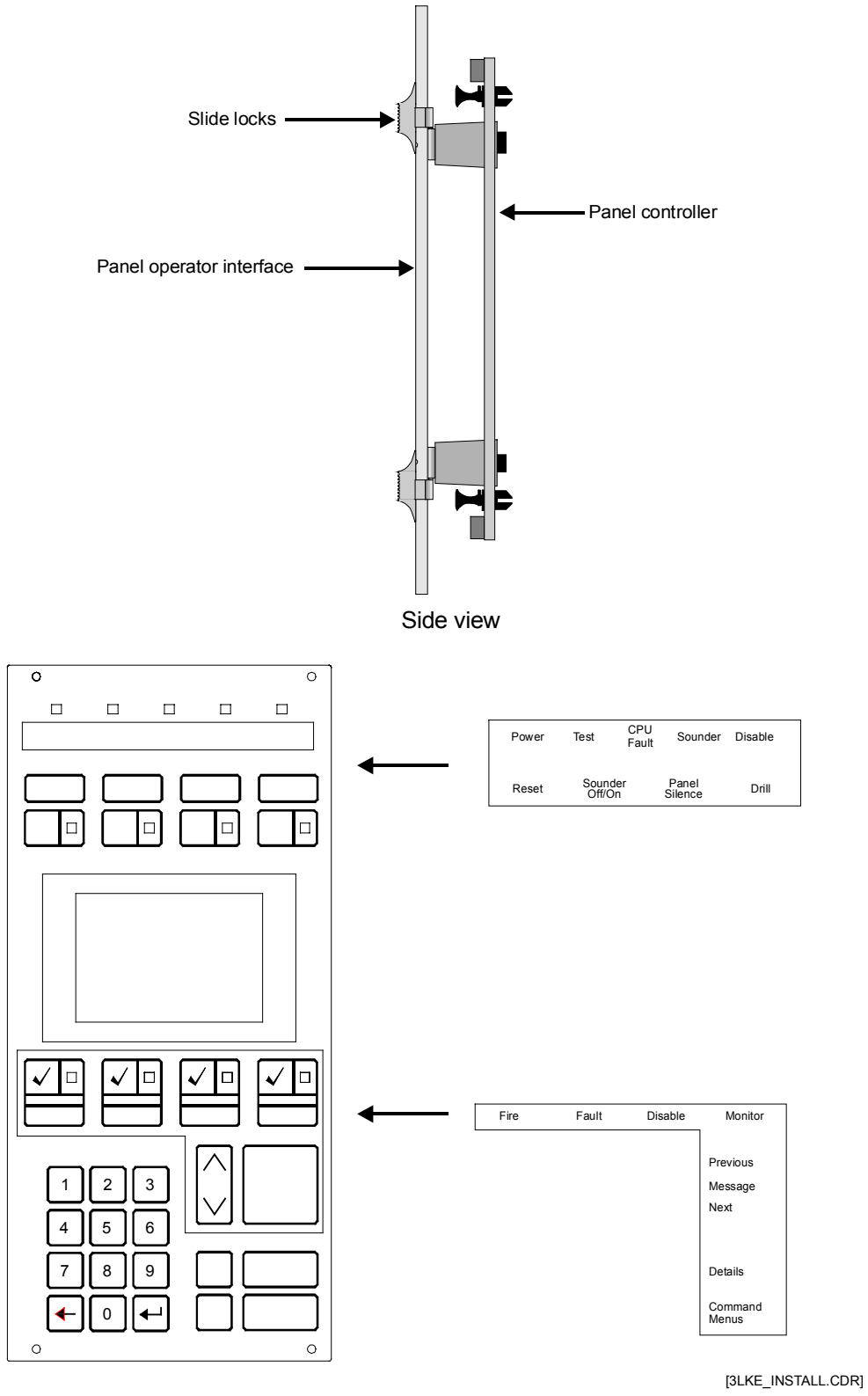

Figure 1-5: 3-LCD Display module installation

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Installing the 3-SSDC Signature Device Controller module

Caution: This product contains components that are sensitive to static electricity. Failure to follow proper handling procedures will result in equipment damage.

Assembling the Signature device controller

Assemble the Signature device controller according to the instructions provided on the 3-SSDC installation sheet with the following additions:

- Attach a Kapton label over the communication LEDs. See Figure 1-6.

Wiring the Signature device controller

Make the field wiring connections as indicated on the 3-SSDC installation sheet with the following exceptions:

- Loop the end of the Class A primary wire pair and the Class A return wire pair and clamp a ferrite clamp (ordered separately, P/N RFK1) around each loop. See Figure 1-6.

Note: Field wiring should be thoroughly checked before making connections to reduce the possibility of wiring faults.

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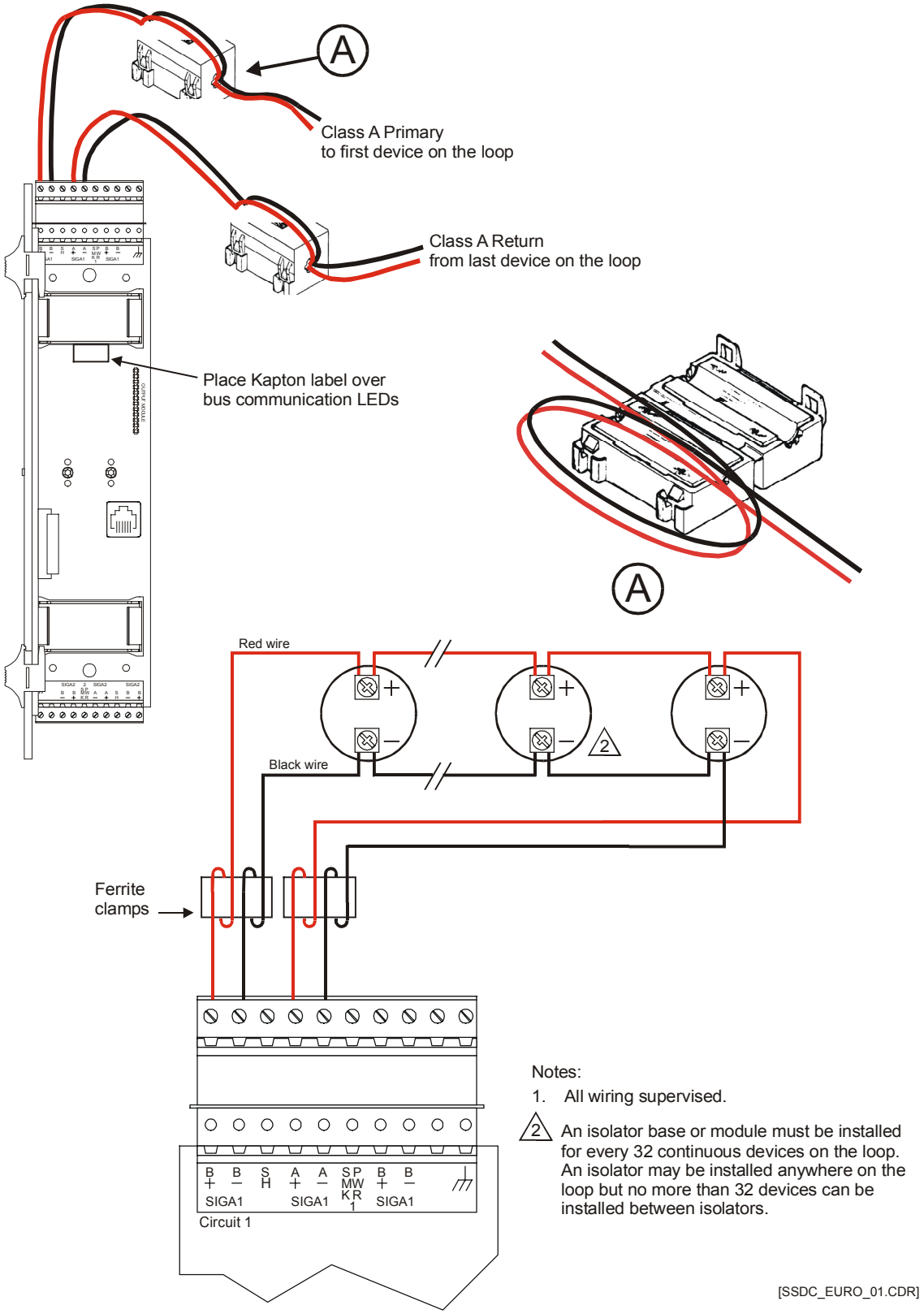
A
Class A Primary
to first device on the loop
Class A Return
from last device on the loop
Place Kapton label over
bus communication LEDs
A
Red wire
Black wire
2
Ferrite
clamps
B + B – S H A + A – SP MW KR 1 B + B –
SIGA1 SIGA1 SIGA1
Circuit 1
Notes:
1. All wiring supervised.
2 An isolator base or module must be installed for every 32 continuous devices on the loop. An isolator may be installed anywhere on the loop but no more than 32 devices can be installed between isolators.
[SSDC_EURO_01.CDR]

Figure 1-6: 3-SSDC installation and wiring

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Installing the 3-AADC Addressable Analog Device Controller module

Caution: This product contains components that are sensitive to static electricity. Failure to follow proper handling procedures will result in equipment damage.

Assembling the 3-AADC device controller

Assemble the 3-AADC device controller according to the instructions provided on the 3-AADC installation sheet with the following additions:

- Attach a Kapton label over the communication LEDs. See Figure 1-7.

Wiring the 3-AADC device controller

Make the field wiring connections as indicated in the 3-SSDC installation sheet with the following exceptions:

- Loop the end of the Class A primary wire pair and the Class A return wire pair and clamp a ferrite sleeve (ordered separately, P/N RFK1) around each loop. See Figure 1-7.

Note: Field wiring should be thoroughly checked before making connections to reduce the possibility of wiring faults.

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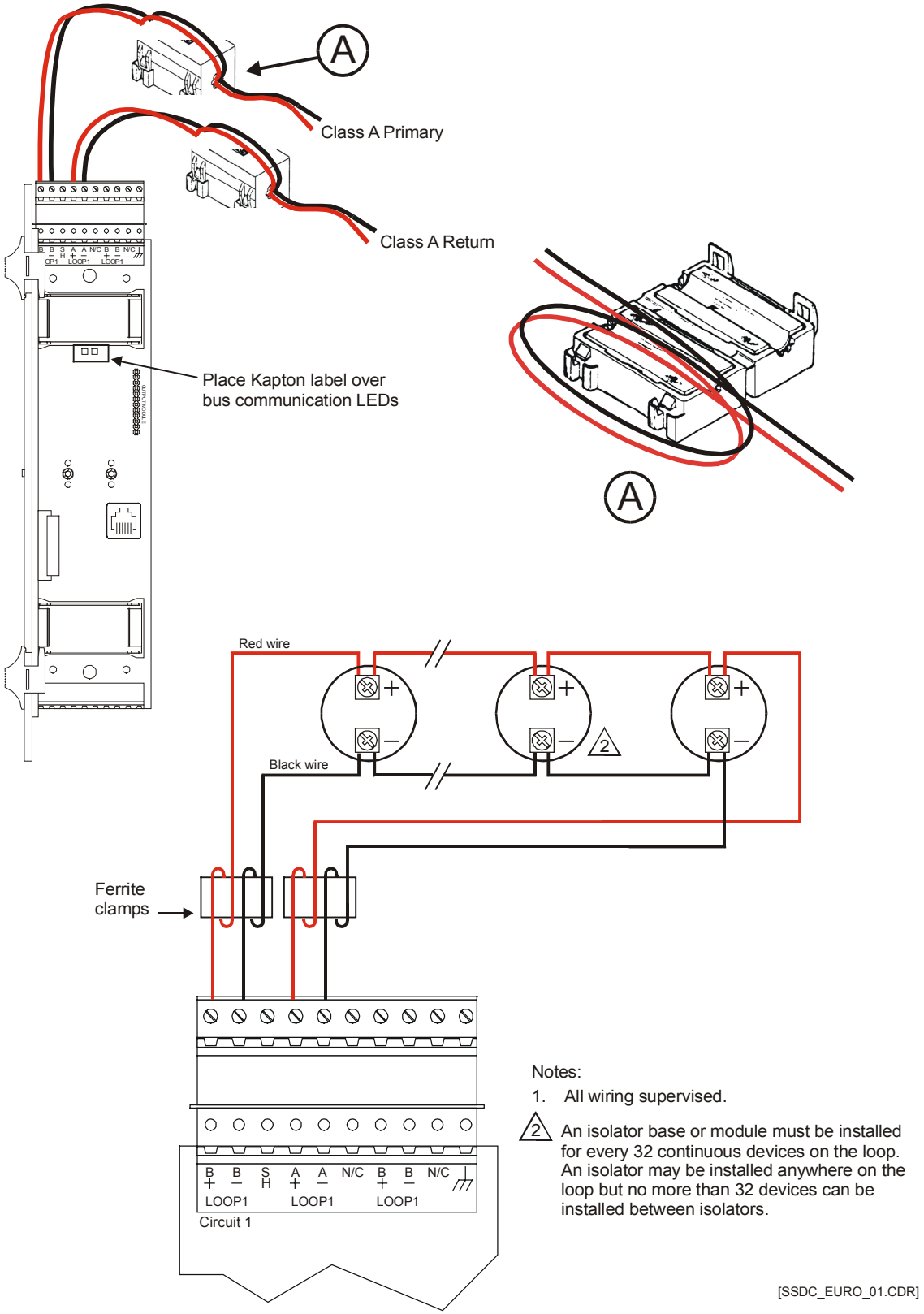
A
Class A Primary
Class A Return
Place Kapton label over
bus communication LEDs
A
Red wire
Black wire
2
Ferrite
clamps
B B S A A N/C B B N/C
+ – H + – + –
LOOP1 LOOP1 LOOP1
Circuit 1
Notes:
1. All wiring supervised.
2 An isolator base or module must be installed for every 32 continuous devices on the loop. An isolator may be installed anywhere on the loop but no more than 32 devices can be installed between isolators.
[SSDC_EURO_01.CDR]

Figure 1-7: 3-AADC installation and wiring

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Installing the 3-ASU/FT Audio Source Unit with Firefighter's Telephone

Caution: This product contains components that are sensitive to static electricity. Failure to follow proper handling procedures will result in equipment damage.

Assembling the 3-ASU/FT

Assemble the 3-ASU/FT as indicated on the 3-ASU/FT installation sheet with the following exceptions:

- Clamp a ferrite sleeve (ordered separately, P/N RFK1) to each ribbon cable (P/N 250190) going from the 3-CHAS7 to the 3-RCIC close to the 3-RCIC. Do not loop the ribbon cable. See Figure 1-8.
- Attach a Kapton label over the communication LEDs on the 3-ASU controller module
- Attach a Kapton label over the communication LEDs on the 3-FTCU controller module

Wiring the 3-ASU/FT

Make field wiring connections as indicated on the 3-ASU/FT installation sheet.

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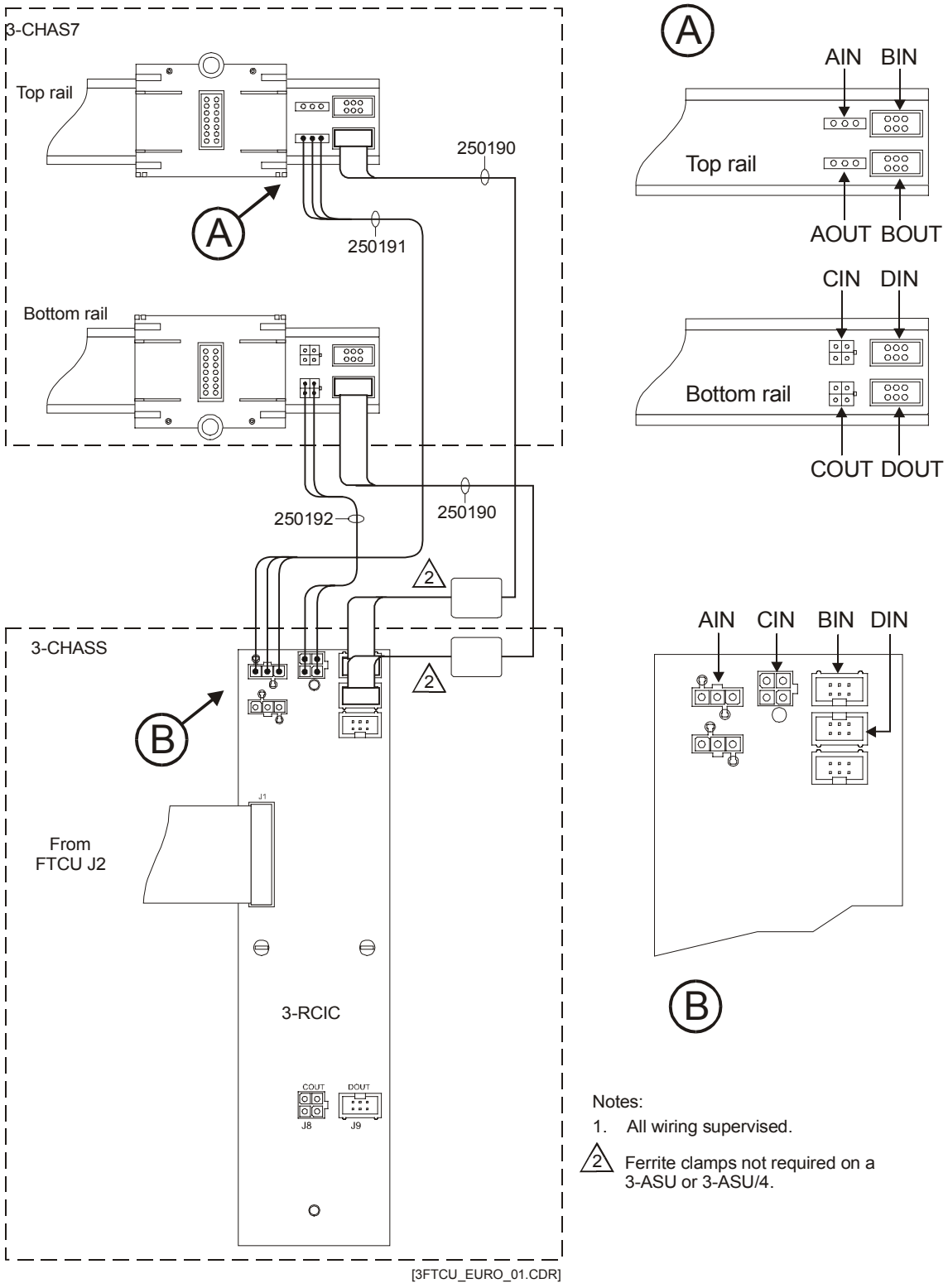

Figure 1-8: 3-FTCU cabling diagram

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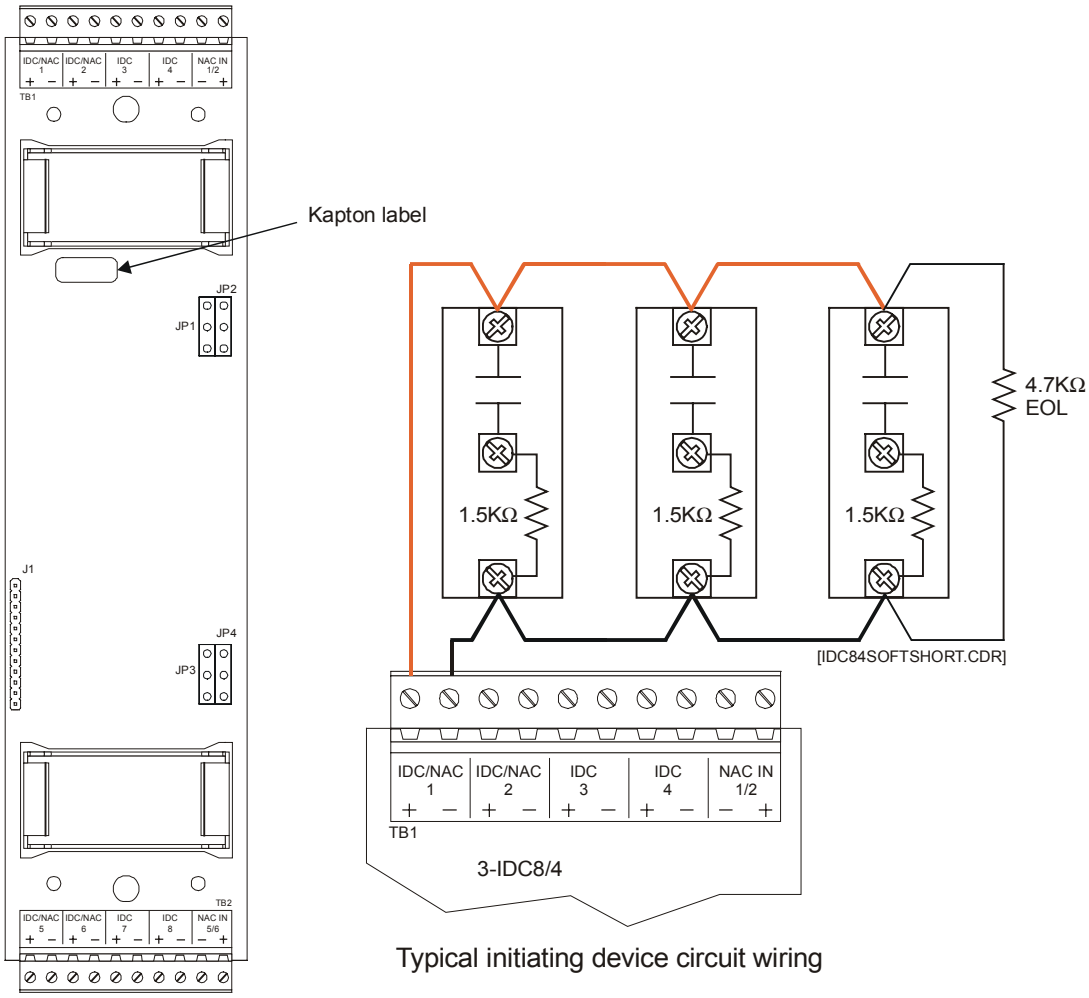
Installing a 3-IDC8/4 Initiating Device Circuit module

Caution: This product contains components that are sensitive to static electricity. Failure to follow proper handling procedures will result in equipment damage.

Install the 3-IDC8/4 as indicated on the 3-IDC8/4 installation sheet with the following exceptions:

- Attach a Kapton label over the communication LEDs. See Figure 1-9.
- Place a 1.5 kΩ resistor in series with each initiating device on the return side of the circuit.



Typical initiating device circuit wiring

Figure 1-9: 3-IDC8/4 typical installation

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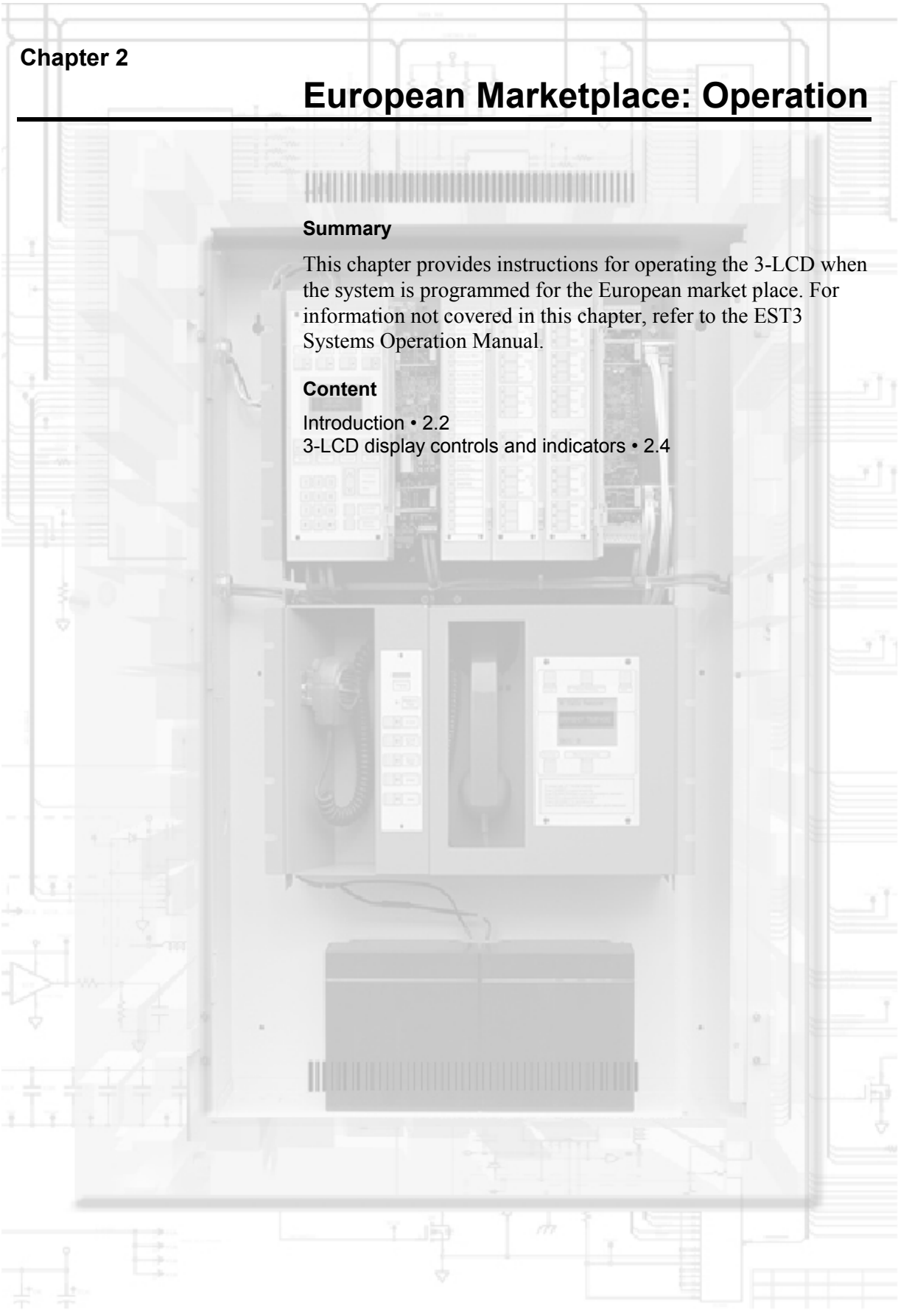
Chapter 2

European Marketplace: Operation



Summary

This chapter provides instructions for operating the 3-LCD when the system is programmed for the European market place. For information not covered in this chapter, refer to the EST3 Systems Operation Manual.

Content

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Introduction

When configured for the European market place, there is no requirement to acknowledge each individual event. Each event can be viewed using the Previous and Next message switches.

Fire events do not automatically restore and are removed from the Fire event bin only after the panel is reset. System events that automatically restore are removed from their respective event bins once they are restored.

The 3-LCD display operates as described in the *EST3 System Operations Manual* with the following notable exceptions:

- By default, the date is displayed in date-month-year format as shown in Figure 2-1. The panel's date format can be changed regardless of the market place setting.
- The event bins, shown in Figure 2-2, are designated as follows in order from highest to lowest priority:

  F for fire (alarm) events. For example, smoke detector or fire call point activations.

  f for fault events. For example, open or shorted circuits.

  D for disable events

  M for monitor events
- The expanded message area occupies the top half of the display screen when an operator presses the Details switch. This allows the most recent highest priority event to always be displayed as shown in Figure 2-3.
- The panel does not automatically silence after all the events have been reviewed.

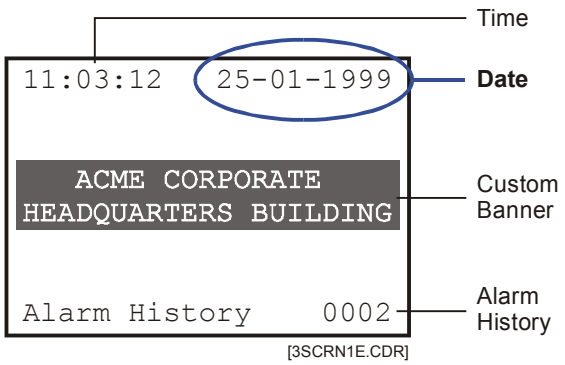

Figure 2-1: 3-LCD display screen when panel is in normal state

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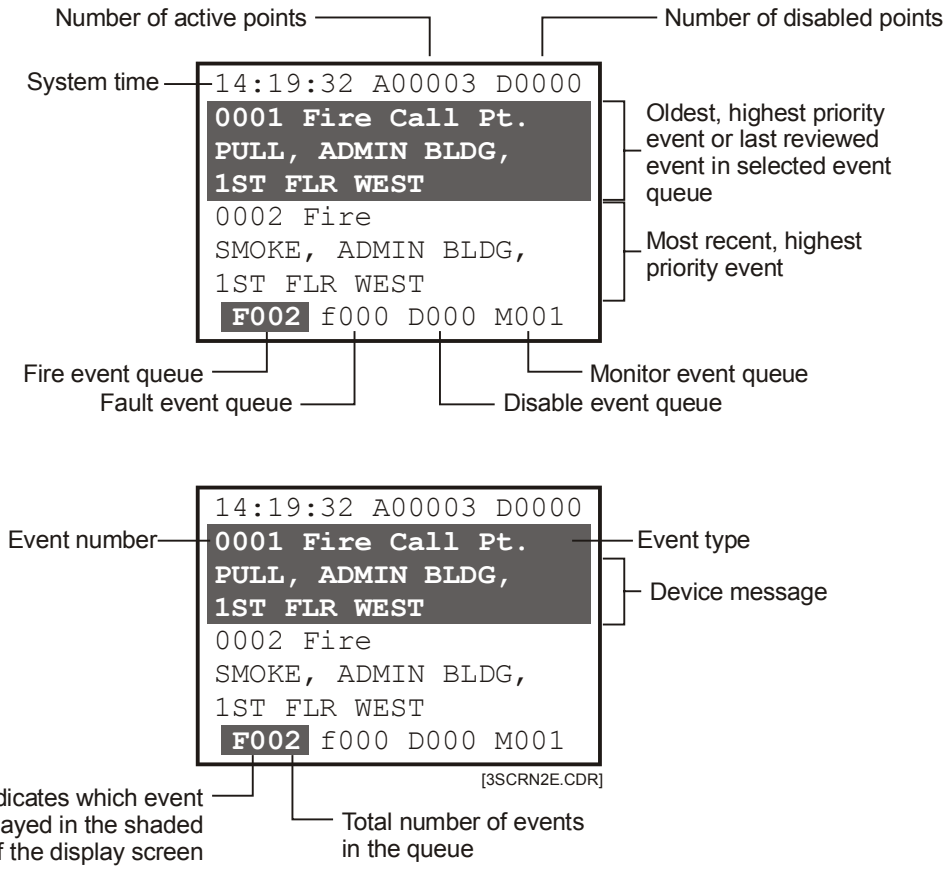

Figure 2-2: 3-LCD display screen when panel is in off-normal state

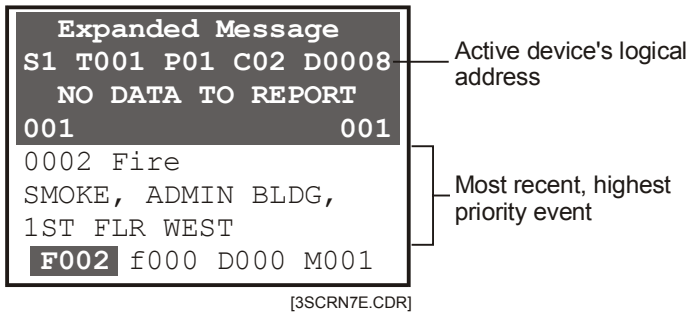

Figure 2-3: Expanded message display

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3-LCD display controls and indicators

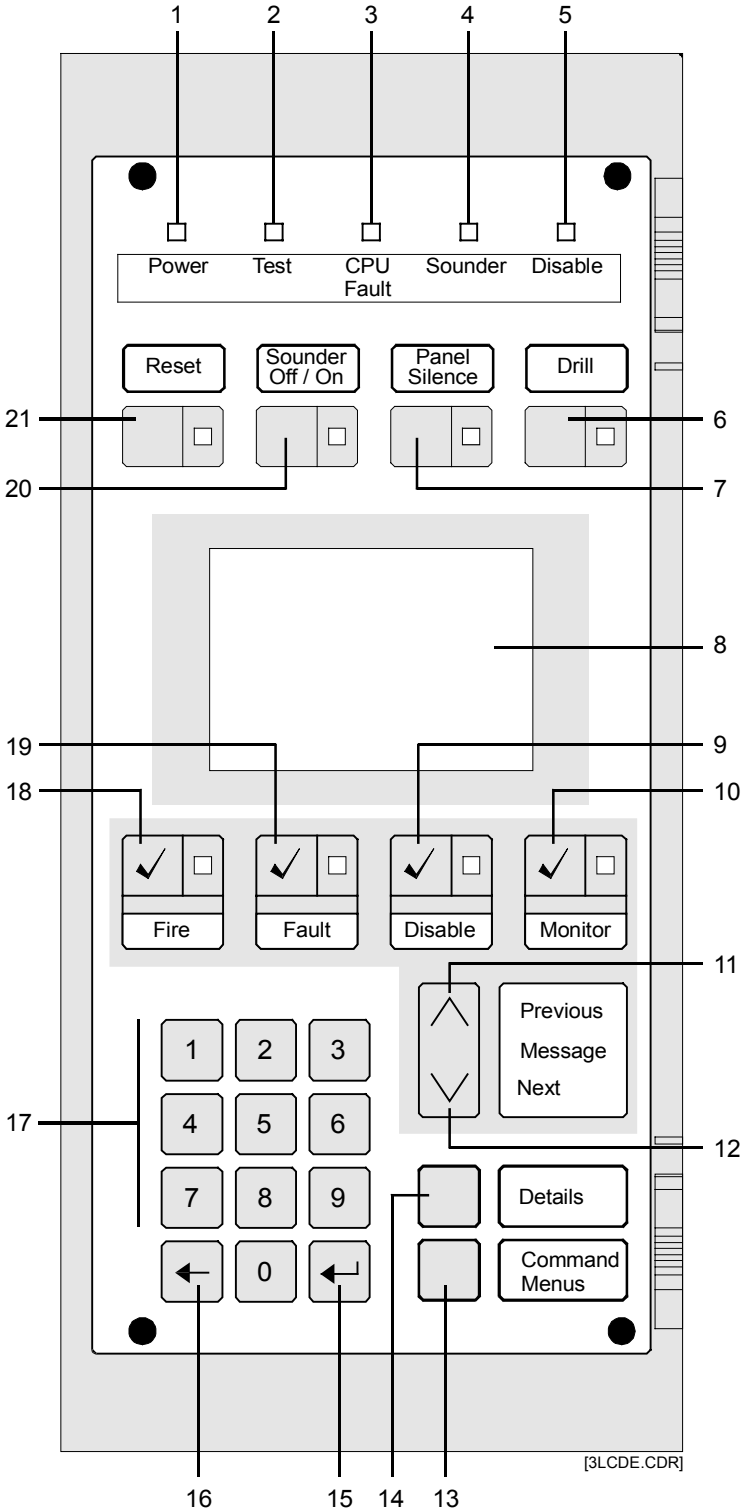

Figure 2-4: 3-LCD display module with European marketplace inserts

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Index	Control or Indicator	Functional Description
1	Power LED	The Power LED indicates that mains ac or battery power is applied to the panel.
2	Test LED	The Test LED indicates that a part of the system is in the test mode. Test mode must be exited manually.
3	CPU Fault LED	The CPU Fault LED indicates that the CPU module has detected a processor failure. Processor failures must be reset manually.
4	Sounder LED	The Sounder LED indicates the status of the sounder circuits. The LED flashes when a fault exists on a sounder circuit. The LED is on steady when a sounder circuit has been disabled. Disabled conditions have priority over fault conditions.
5	Disable LED	The Disable LED indicates that a point or zone has been disabled using the Disable command.
6	Drill Switch/LED	Press the Drill switch to activate the Drill function. The LED indicates that the Drill function is active. Pressing this switch a second time cancels the Drill function and turns off the LED. Activating the Drill function requires an access level 2 password.
7	Panel Silence Switch/LED	Press Panel Silence switch to silence the panel's trouble buzzer. The LED indicates that the buzzer has been silenced and there is at least one active point on the panel. A new active point into the panel turns off the LED and re-sounds the trouble buzzer. By default, the trouble buzzer re-sounds every 15 seconds after being silenced as a reminder that an active point still exists on the panel. The trouble reminder period can be changed in the project configuration.
8	Liquid crystal display screen	168 character, backlit alphanumeric display of system status.
9	Disable Switch/LED	Press the Disable switch to display events placed in the Disable bin. Pressing the switch once selects the bin and displays the first event pulled up in the queue. Pressing the switch again displays the next event in the queue. The switch's LED flashes when an event is in the Disable bin. **CAUTION:** Depending on the size of the system, the panel may not reset points in a zone that go active while the zone is in test as quickly as desired after re-enabling the zone. Always reset the panel after re-enabling zones. **Note:** Only one message is displayed regardless of how many zones are in test. To view zones in test, highlight the common zones in test message and press Details, then Next to view each zone in test.

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Index	Control or Indicator	Functional Description
10	Monitor Switch/LED	Press the Monitor switch to display events placed in the Monitor bin. Pressing the switch once selects the bin and displays the first event pulled up in the queue. Pressing the switch again displays the next event in the queue. The switch's LED flashes when an event is in the Monitor bin.
11	Previous Message Switch	Press the Previous switch to display the event with the next lower event number. When the first event is displayed, pressing this switch pulls up the last event in the queue.
12	Next Message Switch	Press the Next switch to display the event with the next higher event number. When the last event is displayed, pressing this switch pulls up the first event in the queue.
13	Command Menus Switch	Press the Command Menus switch to access a list of commands from which an operator can select in order to control system operations. Pressing the switch a second time exits operator control of the system. The 3-LCD automatically exits operator control of the system after the user timeout period has expired.
14	Details Switch	Pressing the Details switch displays additional information about the event highlighted on the display screen. • For Zone Groups, pressing the Details switch displays a list of the active devices in the zone group. • For Instruction Text Groups, pressing the Details switch displays the entire instruction text. • For Maintenance Alerts, pressing the Details switch displays a list of the dirty devices. • For Common Troubles, pressing the Details switch displays a list of the specific troubles for the selected device. • For Guard Patrols, pressing the Details switch displays the offending station and indicates whether the activation was caused because of an early, late, or out of sequence condition.
15	Enter key	Press the Enter key to select the highlighted menu option or to start processing the information shown in the display.
16	Delete/ Backspace key	Press the Delete/Backspace key to move the cursor to the left of the current position and remove the character from the display. The Delete/Backspace key is also used to cancel functions and move the operator back through the menus.
17	Numeric keypad	Press a number key to select the menu option of the same number or enter the number for use in conjunction with other system functions.

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Index	Control or Indicator	Functional Description
18	Fire Switch/LED	Press the Fire switch to display events placed in the Fire bin. Pressing the switch once selects the bin and displays the first event pulled up in the queue. Pressing the switch again displays the next event in the queue. The switch's LED flashes when an event is in the Fire bin.
19	Fault Switch/LED	Press the Fault switch to display events placed in the Fault bin. Pressing the switch once selects the bin and displays the first event pulled up in the queue. Pressing the switch again displays the next event in the queue. The switch's LED flashes when an event is in the Fault bin.
20	Sounder Off/On Switch/LED	Press the Sounder Off/On switch to turn off all active sounder circuits. Pressing the switch a second time turns all the sounder circuits back on. The switch's LED indicates that the sounder circuits have been silenced. Activating the Sounder Off/On function requires an access level 2 password. **Notes** • This switch may also be used to cancel the drill signal. • Project configuration settings affect Alarm Silence function operation • Pressing the Sounder Off/On and Panel Silence switches at the same time activates the panel lamp test function
21	Reset Switch/LED	Press the Reset switch to restore the system to normal. The switch's LED indicates the status of the Reset function. The LED flashes quickly during the smoke power-down phase, flashes slowly during the power-up phase, and is on steady during the restoral phase. Activating the Reset function requires an access level 2 password. **Notes** • The Reset switch is disabled as long as the alarm silence inhibit timer is running • The Reset switch does not affect disabled points or manually overridden functions.

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Index	Control or Indicator	Functional Description
	Trouble buzzer (located on CPU module)	The trouble buzzer alerts the operator to any off-normal system conditions, such as: • Active alarms • Active test or disabled zones • Active fault conditions • Active monitor conditions • Internal software self-checks When an event is placed into one of the bins, the trouble buzzer sounds a pattern associated with that bin. The pattern is determined by the project marketplace settings. When multiple events of different types come into the panel, the buzzer sounds the pattern for the highest priority event.

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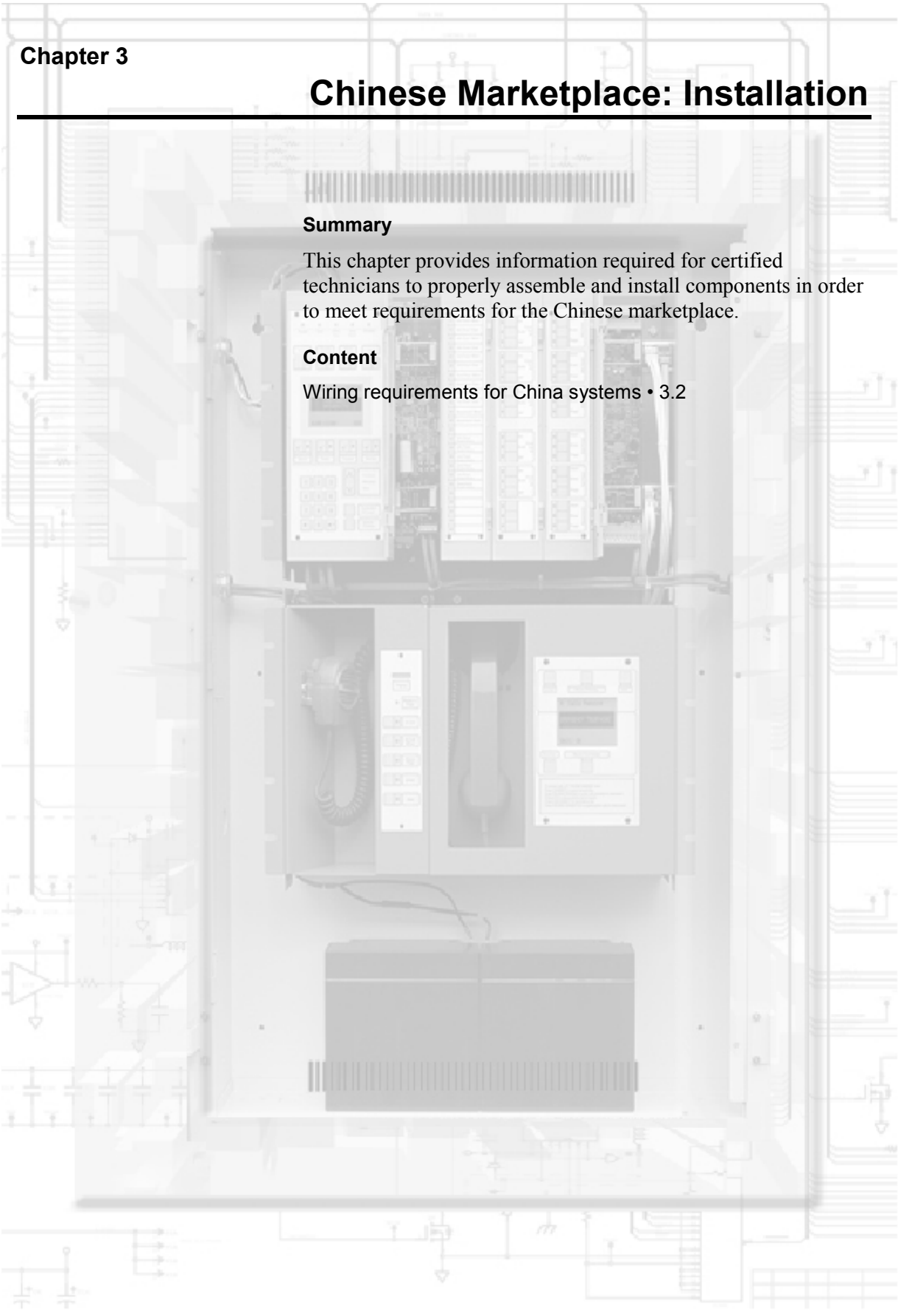
Chapter 3

Chinese Marketplace: Installation



Summary

This chapter provides information required for certified technicians to properly assemble and install components in order to meet requirements for the Chinese marketplace.

Content

Wiring requirements for China systems • 3.2

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Wiring requirements for China systems

Wire high voltage conductors as shown in Figure 3-1. Note the following:

- Clamp a ferrite sleeve (ordered separately, P/N RFK1) around all three conductors inside the cabinet before the filter
- The ground conductor must be secured to the back box ground stud closest to where power enters the cabinet then to the power supply ground terminal
- Attach the ac line filter in the top left corner of the cabinet

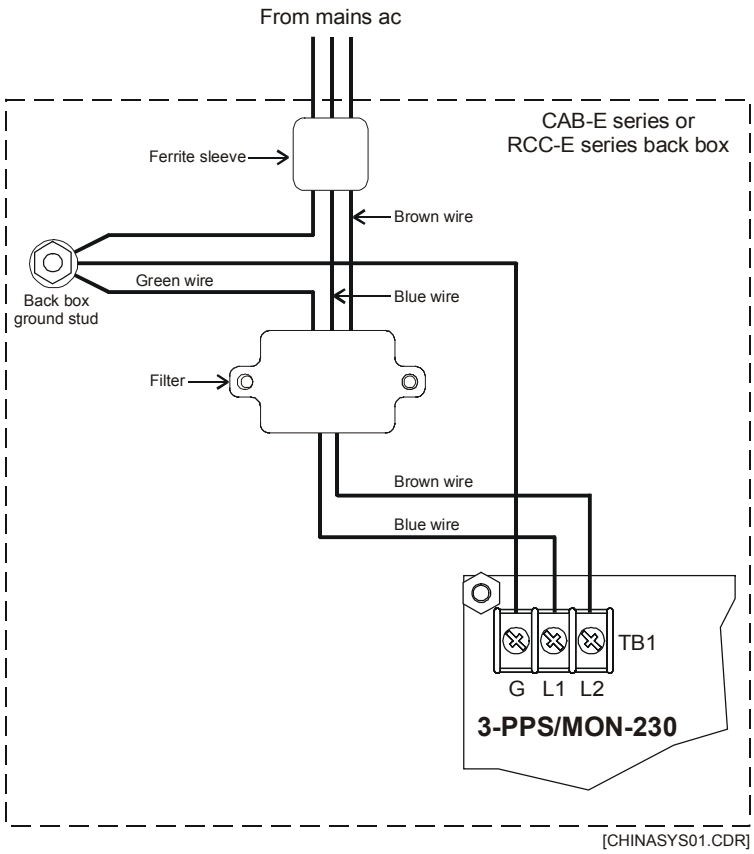

Figure 3-1: Wiring diagram showing high voltage wiring for China systems

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